

Diaphragm Pumps for Air, Gases and Vapors

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LABOPORT® Diaphragm Vacuum Pumps

Technical features:

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Highly compatible with vapors and condensation
- For slightly aggressive or corrosive gases and vapors
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx. 6×10^{-3} mbar x l/s, not tested in serial production.

Series LABOPORT® N820ANP Pumps

Series N820 diaphragm pumps are single-head, oil-free devices used in a wide range of laboratory applications. They transfer and pump down without contamination. The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm. The pumps are available in various versions differing in the materials which contact the media.

Technical data:	N820ANP	N820ATP
Delivery (l/min) ¹⁾	22	20
Ultimate vacuum (Torr)	75	75
Operating pressure (psi)	15	15
Connectors for tube (in.)	ID 3/8"	ID 3/8"
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	115V/60Hz	115V/60Hz
Motor protection	IP 44	IP 44
Power P ₁	145 W	145 W
Operating current	1.9 A	1.9 A
Weight	3.2 lbs.	3.2 lbs.
Dimensions LxHxW (mm)	261/204/110	261/204/110
With thermal switch and power fuse		

Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N820ANP	Aluminum	CR	NBR
N820ATP	Aluminum	PTFE-coated	FFPM

Motors with other voltages and frequencies on request.

¹⁾ at atm. pressure

Accessories

Description	Details	Order No.
Silencer	G 1/4	007007
Hose connector	G 1/4, PVDF, AD 10 mm	004658

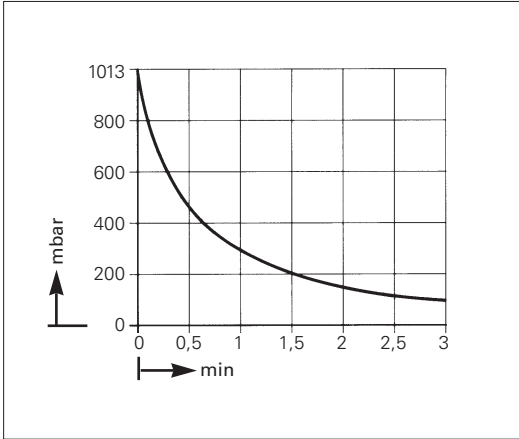
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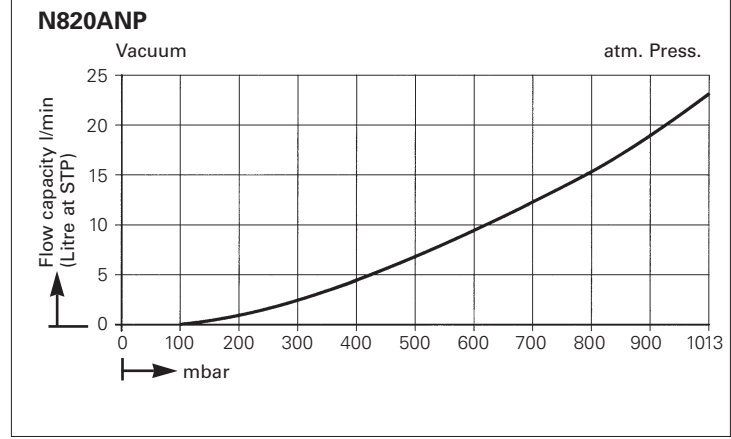


Dimensions and performance characteristics

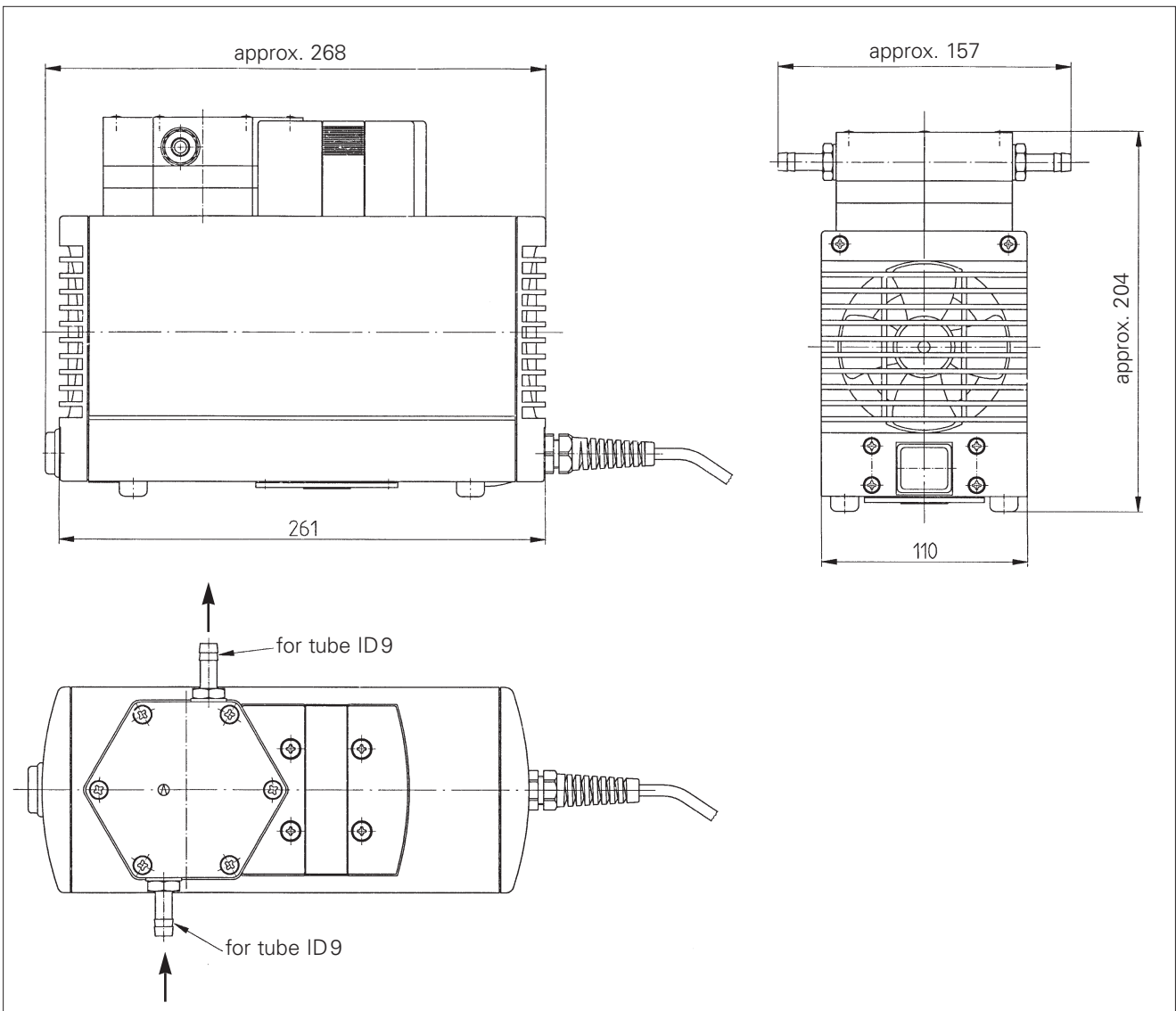
Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)



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